

e. **Remarks**

Applicants amend claim 1 to more clearly point out the invention being claimed.

REJECTIONS UNDER 35 U.S.C. § 112

At page 2, the Office Action rejects claims 1 – 13 under 35 U.S.C. 112, 1st par.

The amendment to claim 1 deletes “a convex region of the first surface being in contact with the top surface,” and inserts “the entire portion of the first surface between the defects being next to the top surface”. Present claim 1 is, e.g., supported by Figure 9 and between page 11, line 10, and page 12, line 15 of the specification. In particular, Figure 9 includes a group III-nitride semiconductor layer 122, a crystalline substrate 124, and threading defects 126. Also, in Figure 9, the entire portion of the bottom surface of semiconductor layer 122, which is between defects 126, is next to the top surface of substrate 126. That is, no structures intervene between part of this portion of the bottom surface of the semiconductor layer 122 and the top surface of the substrate 124. Due at least to this support, present claim 1 satisfies 35 U.S.C. § 112, 1st par.

Similarly, dependent claims 2 – 13 satisfy 35 U.S.C. § 112, 1st par.

CONCLUSION

Applicants request allowance of claims 1 – 13.

In the event of any non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** as required to correct the error.

Respectfully,



John F. McCabe, Attorney Reg. No. 42854
908-582-6866

Date: May 16, 2005

Docket Administrator (Room 3J-219)
Lucent Technologies Inc.
101 Crawfords Corner Road
Holmdel, NJ 07733-3030

b. Amendments to the Specification

None

c. Amendments to the Drawings

None